

Comparisons of Job Characteristics

Focus Occupation: [Metal-Refining Furnace Operators and Tenders \(51-4051\)](#)

Associated Occupation: [Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders \(51-9051\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

| | |
|----|--|
| << | Focus occupation element is much lower |
| < | Focus occupation element is lower |
| 0 | Focus occupation element is at a similar level |
| > | Focus occupation element is at a higher level |
| >> | Focus occupation element is at a much higher level |

Knowledge

Similarity of Focus Occupation to Associated Occupation: 82

Focus Occupation: Metal-Refining Furnace Operators and Tenders (51-4051)

Associated Occupation: Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders (51-9051)

| Associated Occupation's Key Knowledge Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating | Evaluation of Focus Occupation |
|--|---------------------------------|--------------------------------|---------------------------|--|
| Production and Processing | 6.0 | 15.7 | 13.1 | < Expanded education and/or training may be required |
| Mechanical | 6.8 | 13.1 | 9.8 | << Extensive education and/or training may be required |
| Public Safety and Security | 6.9 | 10.9 | 4.6 | << Extensive education and/or training may be required |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 86

Focus Occupation: Metal-Refining Furnace Operators and Tenders (51-4051)

Associated Occupation: Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders (51-9051)

| Associated Occupation's Key Skills Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating | Evaluation of Focus Occupation |
|---|---------------------------------|--------------------------------|---------------------------|--|
| Operation Monitoring | 6.6 | 13.7 | 12.2 | < A higher skill level may be required |
| Operation and Control | 5.4 | 9.7 | 11.9 | > Skill level is likely sufficient |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 71

Focus Occupation: Metal-Refining Furnace Operators and Tenders (51-4051)

Associated Occupation: Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders (51-9051)

| Associated Occupation's Key Abilities Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating | | Evaluation of Focus Occupation |
|--|---------------------------------|--------------------------------|---------------------------|----|--|
| Control Precision | 6.6 | 10.8 | 12.3 | > | Current ability level is likely sufficient |
| Selective Attention | 8.7 | 10.3 | 9.8 | 0 | Current ability level may be sufficient |
| Perceptual Speed | 7.4 | 9.7 | 9.2 | 0 | Current ability level may be sufficient |
| Reaction Time | 4.8 | 9.3 | 10.6 | > | Current ability level is likely sufficient |
| Extent Flexibility | 4.8 | 8.2 | 9.8 | > | Current ability level is likely sufficient |
| Gross Body Equilibrium | 3.2 | 7.1 | 4.4 | << | Extensive improvement in abilities may be required |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 87

Focus Occupation: Metal-Refining Furnace Operators and Tenders (51-4051)

Associated Occupation: Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders (51-9051)

| Work Activities | Exclusivity of Activity |
|---|-------------------------|
| Adjust production equipment/machinery setup | 25 |
| Collect samples for testing | 58 |
| Examine products or work to verify conformance to specifications | 15 |
| Load or unload material or workpiece into machinery | 34 |
| Maintain production or work records | 19 |
| Measure, weigh, or count products or materials | 17 |
| Monitor production machinery/equipment operation to detect problems | 27 |
| Move or fit heavy objects | 8 |
| Operate hoist, winch, or hydraulic boom | 34 |
| Operate ore refining/foundry equipment/machinery | 84 |
| Use precision measuring tools or equipment | 17 |

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: n/a

Focus Occupation: Metal-Refining Furnace Operators and Tenders (51-4051)

Associated Occupation: Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders (51-9051)

| Tools and Technologies | Exclusivity |
|---|-------------|
| Tools and technology data is unavailable for one or both occupations. | |

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.